

S. Patent application 10/053,260

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Response to U.S. Patent office action dated 02/06/2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : NEWMARK, DAVID P
Serial No. : 10/053,260 Confirmation No. 1280
Filed : 01/18/2002
For : THREADED HOLE FINISHING TOOL
Examiner : HOWELL, DANIEL W
Art Unit : 3722
Docket No : M1817-3

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Date : 2/23/04
By : David P. Newmark
Signature :
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Hon. Assistant Commissioner for Patents
Washington, D.C. 2033

PETITION to REQUEST RECONSIDERATION

SIR:

In accordance with 37 C.F.R. 1.121 revised practice of July 30, 2003. I the Applicant / Inventor, wish to bring to the attention of the Examiner my Petition to request reconsideration relating to patent application No. 10/053,260.

Please find attached Petition to request reconsideration.

David P. Newmark
Vernon Devices inc.
111 Plain Ave
New Rochelle NY 10801
(914) 633-0038

Respectfully Submitted,

David P. Newmark
Applicant/Inventor
Date 2/23/04

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TECHNOLOGY CENTER R3700

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PETITION to REQUEST RECONSIDERATION

These new claims presented here within all call for a deburring tool with helical cutting members with guiding edges be fitted to a tap with helical flutes. None of the references cited disclose such an arrangement.

With regard to the rejection of claim 1 and 5-9 of the original application, under 35 U.S.C.103(a) as obvious over Robinson and Halpern'325.

And

Claims 2-4 and 10-12 rejected under 35 U.S.C.103(a) as being unpatentable over Robinson and Halpern'325, as applied to claims 1 and 5-9 in further view of Halpern's '099

I argue that:

1. Robinson describes and claims a tap deburring tool with ribs fitted into longitudinally recessed flutes of a tap and a deburring tool that cuts in the same direction as the tap cuts. The present invention differs in that the both the tap and deburring tool have flutes and cutting members that are helical.

2. Halpern's '325 describes a deburring and chamfering tool with tool elements 38 and 40 which do not guide the cutter body along the helix of the drill. Halpern's tool is guided along the helix by set screw 52 with a ball 54 at it's end. Without this screw Halpern's '325 would not function properly. The present invention differs in that it requires no guiding screw.

3. Halpern's '099 describes a tap similar to tap described by Robinson, a tap with

axially extended groves or flutes 12 and a deburring tool with cutters 7 and 8 positioned in said flutes. The difference between Halpern's '099 and Robinson is that Halpern's '099 cutters cut as the tap is removed from the hole. The present invention differs from this invention just as it does from Robinson's invention in that the both the tap and deburring tool have flutes and cutting members that are helical.

Conclusion

None of the above mentioned tools require, as does the present invention does require, that helical cutting members with guiding edges of the deburring tool be fitted into helical flutes of a tap.

When the principal of Robinson's tool, the fact that it cuts in the direction of the tapping is combined with Halpern's '325 , a device on a helical fluted drill the resultant tool would require set screw 52 of Halpern's tool to function, the present invention requires no such screw. If the principals of Halpern's '099 is either add to the above mentioned combination or substituted for Robinson's part of the above mentioned combination the resultant tool would only be changed by the direction in which it would cut and still require Halpern's '325 screw 52 to function.

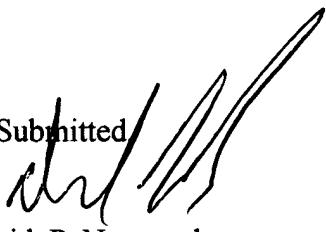
Additionally there is no critical helical angle disclosed in any of the cited references. This critical angle was only discovered after experimenting with taps with helical flutes. It was not obvious that there was a critical angle of a taps helical flutes that would require the cutting direction of the deburring tool to be reversed.

The present invention is distinct and truly unique from all the cited references. Therefore it deserves consideration and acceptance of the new claims submitted here within all of which are dependant on claim 13 which call for a deburring tool with helical cutting members and guiding edges be fitted into the helical flutes of a tap. None of the cited references disclose such an arrangement. Additionally none of the cited references disclose any of the embodiments claimed in the new dependant claims 14-20 which further limit the scope of the protection.

For the above reasons it is respectfully requested that the new claims be allowed and a patent granted.

David P. Newmark
Vernon Devices inc.
111 Plain Ave
New Rochelle NY 10801
(914) 633 0038

Respectfully Submitted,



David P. Newmark
Applicant/Inventor
Date: 2/23/04